IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
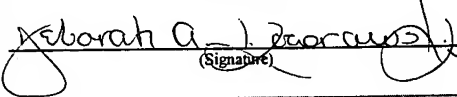
Applicant: Edwin Tam

Title: SYSTEM FOR AND METHOD
OF SELECTING AND
PRESENTING USER
CUSTOMIZABLE
PREFERENCES

Appl. No.:   10/045,474

Filing Date: 10/22/2001

Examiner: Nguyen, Cao H.

Art Unit: 2173

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Edwin Tam, state and declare that:

1.   I am the inventor of claims 1-20 of U.S. Patent Application No. 10/045,474 titled "SYSTEM FOR AND METHOD OF SELECTING AND PRESENTING USER CUSTOMIZABLE PREFERENCES" (hereinafter "the '474 application").

2.   Prior to the September 24, 2001 filing date of the patent application which matured into U.S. Patent No. 6,475,146 to Frelburger et al., I conceived and reduced to practice in Canada, a NAFTA country, the ideas set forth in the above-listed claims in the '474 application and described in the '474 application as evidenced by the attached Exhibits A-D.

3.   Exhibit A, titled "Picture Properties Dialog Transfer Code, MFC Dialog Implementation for Picture Properties" is a redacted copy of source code detailing an exemplary implementation of the subject matter of the '474 application.

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4.   Exhibit B, titled "Picture Properties Dialog Transfer Code, MFC Dialog Definition for Picture Properties," is a redacted copy of source code detailing a definition of an exemplary implementation of the subject matter of the '474 application.

5.   Exhibit C is a redacted copy of a soured code/screen design or layout of an exemplary implementation of the subject matter of the '474 patent application.

6.   Exhibit D is a redacted copy of a portion of an invention disclosure form pertaining to the subject matter of the '474 application.

4.   Each of the dates deleted from Exhibits A-D is prior to September 24, 2001. Exhibits A-D were in existence prior to September 24, 2001.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Date_____Sept 07, 2004_____   By_____
                                          Edwin Tam

PictureProperties.cpp

```
/*-------------------------------------------------------------------------
  $Header:
/opt/cvsroot/suite/wbe/client/clientUI/win32/IWConfig/PictureProperties.cpp,v
1.1.2.1              etam Exp $
-------------------------------------------------------------------------
  Copyright (c)      Infowave Software, Inc. all rights reserved.

  File:

  Project: Claymore

  Contains: Picture Properties dialog transfer code.

  Written by: Edwin Tam

  Description: MFC Dialog implementation for picture properties.

-------------------------------------------------------------------------*/
#include "stdafx.h"
#include "iwconfig.h"
#include "PictureProperties.h"
#include "..\include\RegistryKeys.h"
#include "RegEdit.h"
#include "CustomScaleDlg.h"

#ifdef _DEBUG
#define new DEBUG_NEW
#undef THIS_FILE
static char THIS_FILE[] = __FILE__;
#endif

//////////////////////////////////////////////////////////////////////////
// CPictureProperties dialog


CPictureProperties::CPictureProperties(CWnd* pParent /*=NULL*/)
        : CDialog(CPictureProperties::IDD, pParent)
{
        //{{AFX_DATA_INIT(CPictureProperties)
        m_colorDepth = _T("");
        m_bAdjustAllImages = 1;
        m_imageScalingType = _T("");
        //}}AFX_DATA_INIT
}


void CPictureProperties::DoDataExchange(CDataExchange* pDX)
{
        CDialog::DoDataExchange(pDX);
        //{{AFX_DATA_MAP(CPictureProperties)
        DDX_Control(pDX, IDC_IMAGE_SCALING, m_imageScalingComboBox);
        DDX_Control(pDX, IDC_COLOR_DEPTH, m_colorDepthComboBox);
        DDX_CBString(pDX, IDC_COLOR_DEPTH, m_colorDepth);
        DDV_MaxChars(pDX, m_colorDepth, 80);
        DDX_Radio(pDX, IDC_HIDE_ALL_IMAGES_RADIO, m_bAdjustAllImages);
        DDX_CBString(pDX, IDC_IMAGE_SCALING, m_imageScalingType);
        DDV_MaxChars(pDX, m_imageScalingType, 80);
        //}}AFX_DATA_MAP
}


BEGIN_MESSAGE_MAP(CPictureProperties, CDialog)
        //{{AFX_MSG_MAP(CPictureProperties)
```

```
                        PictureProperties.cpp
        ON_BN_CLICKED(IDC_HIDE_ALL_IMAGES_RADIO, OnHideAllImagesRadio)
        ON_BN_CLICKED(IDC_HIDE_ALL_IMAGES_RADIO2, OnAdjustImagesRadio)
        ON_CBN_SELCHANGE(IDC_IMAGE_SCALING, OnSelchangeImageScaling)
        //}}AFX_MSG_MAP
END_MESSAGE_MAP()

/*-------------------------------------------------------------------
void CPictureProperties::OnOK()

Called when the user preses ok. Here we store the user's choices into
the registry.

-----------------------------------------------------------------*/
void CPictureProperties::OnOK()
{
        CDialog::OnOK();

        CString         root = PicturePropertiesRootKey;
        CString         sub     = PicturePropertiesSubKey;
        CRegEdit        regEdit;

        // read the registry specific stuff in
        regEdit.OpenKey(REGISTRY_KEY_LOCATION, root + sub);

        // store adjust image type
        regEdit.SetValue(AdjustAllImages, (DWORD)m_bAdjustAllImages );

        // store scaling level
        int iCurSel = m_imageScalingComboBox.GetCurSel();
        ASSERT( iCurSel != CB_ERR );
        regEdit.SetValue(ScalingAmount, m_imageScalingComboBox.GetItemData(iCurSel )
    );

        // store color depth
        iCurSel = m_colorDepthComboBox.GetCurSel();
        ASSERT( iCurSel != CB_ERR );
        regEdit.SetValue(ColorDepth, m_colorDepthComboBox.GetItemData(iCurSel )  );

} // CPictureProperties::OnOK()


/*-------------------------------------------------------------------
BOOL CPictureProperties::OnInitDialog()

Read from config and load image properties.

-----------------------------------------------------------------*/
BOOL CPictureProperties::OnInitDialog()
{
        if ( CDialog::OnInitDialog() )
        {
                CRegEdit        regEdit;
                CString         root            = PicturePropertiesRootKey;
                CString         sub                     = PicturePropertiesSubKey;
                int                     scaling         = DefaultScaleValue;
                int                     colordepth      = DefaultColorDepth;

                // read the registry specific stuff in
                regEdit.OpenKey(REGISTRY_KEY_LOCATION, root + sub);

                m_bAdjustAllImages = regEdit.QueryDWORD(AdjustAllImages);
                if ( m_bAdjustAllImages )
                {
```

```
                        PictureProperties.cpp
                    ASSERT( m_bAdjustAllImages == 1 );
                    m_bAdjustAllImages = 1; // expecting 0 or 1, but just in
case

                    // get scaling and color depth
                    scaling         = regEdit.QueryDWORD(ScalingAmount);
                    colordepth      = regEdit.QueryDWORD(ColorDepth);

                    // enable the controls
                    OnAdjustImagesRadio();

            }// if()
            else
                    // user currently hasn't set any adjustments
                    OnHideAllImagesRadio();

            // load all the controls with the appropriate values
            for ( int i = 0; i < sizeof( ScalingOptions
)/sizeof(StringToIntMap); ++i )
                    {

m_imageScalingComboBox.InsertString(i,ScalingOptions[i].description );
                    m_imageScalingComboBox.SetItemData(i,
ScalingOptions[i].value);
                    if ( ScalingOptions[i].value == scaling )
                    {
                            m_imageScalingComboBox.SetCurSel(i);
                    }

            } // for()
            for ( i = 0; i < sizeof( ColorDepthOptions )/sizeof(StringToIntMap);
++i )
                    {

m_colorDepthComboBox.InsertString(i,ColorDepthOptions[i].description );
                    m_colorDepthComboBox.SetItemData(i,
ColorDepthOptions[i].value);
                    if ( ColorDepthOptions[i].value == colordepth )
                            m_colorDepthComboBox.SetCurSel(i);
            } // for()

            // check to see if a scale was selected
            if ( m_imageScalingComboBox.GetCurSel() == CB_ERR )
            {
                    SetCustomComboDescription(scaling);
            }

            // should always have a valid color in the registry
            if ( m_colorDepthComboBox.GetCurSel() == CB_ERR )
                    m_colorDepthComboBox.SetCurSel(DefaultPosition);


            UpdateData(false);
    }
    return TRUE;   // return TRUE unless you set the focus to a control
                            // EXCEPTION: OCX Property Pages should return FALSE
} // CPictureProperties::OnInitDialog()

/*----------------------------------------------------------------------
void CPictureProperties::OnHideAllImagesRadio()

Disable the custom image/color depth controls.
```

```
-------------------------------------------------------------------*/
void CPictureProperties::OnHideAllImagesRadio()
{
        m_imageScalingComboBox.EnableWindow(FALSE);
        m_colorDepthComboBox.EnableWindow(FALSE);
} // CPictureProperties::OnHideAllImagesRadio()

/*-----------------------------------------------------------------
void CPictureProperties::OnAdjustImagesRadio()

Enable the custom image/color depth controls
-------------------------------------------------------------------*/
void CPictureProperties::OnAdjustImagesRadio()
{
        m_imageScalingComboBox.EnableWindow(TRUE);
        m_colorDepthComboBox.EnableWindow(TRUE);
} // CPictureProperties::OnAdjustImagesRadio()

/*-----------------------------------------------------------------
void CPictureProperties::OnSelchangeImageScaling()

Check if the user selected the custom entry, if so, popup the custom
dialog.

-------------------------------------------------------------------*/
void CPictureProperties::OnSelchangeImageScaling()
{
        if ( UpdateData() ) // transfer ui values to member equivalents
        {
                if ( m_imageScalingComboBox.GetCurSel() == CustomScaleIndex )
                {
                        CCustomScaleDlg          customScale;
                        customScale.m_scaleValue =
m_imageScalingComboBox.GetItemData(CustomScaleIndex);
                        if ( customScale.DoModal() == IDOK )
                        {
                                SetCustomComboDescription( customScale.m_scaleValue
);
                        }
                }// if(()
        } // if()
} // CPictureProperties::OnSelchangeImageScaling()

/*-----------------------------------------------------------------
void CPictureProperties::SetCustomComboDescription()

Sets the default string title ( eg. Custom (50%) )

input:  A percentage amount ( between 0 and 100 )
-------------------------------------------------------------------*/
void CPictureProperties::SetCustomComboDescription( int amount )
{
        CString format, line;

        if (( amount < 0 ) || ( amount > 100))
        {
                ASSERT(0);
                return;
        }
        format.LoadString( IDS_SCALE_FORMAT_STRING );
        line.Format( IDS_SCALE_FORMAT_STRING, amount );
        m_imageScalingComboBox.DeleteString( CustomScaleIndex );
        m_imageScalingComboBox.InsertString( CustomScaleIndex, line );
```

```
                         PictureProperties.cpp
    m_imageScalingComboBox.SetItemData( CustomScaleIndex, amount );
    m_imageScalingComboBox.SetCurSel( CustomScaleIndex );

} // CPictureProperties::SetCustomComboDescription()
```

PictureProperties.h

```
/*-----------------------------------------------------------------------
  $Header:
/opt/cvsroot/suite/wbe/client/clientUI/win32/IWConfig/PictureProperties.h,v 1.1.2.1
                    etam Exp $
-----------------------------------------------------------------------
   Copyright (c)      Infowave Software, Inc. all rights reserved.

   File:

   Project: Claymore

   Contains: Picture Properties dialog transfer code.

   Written by: Edwin Tam

   Description: MFC Dialog definition for picture properties.

-----------------------------------------------------------------------*/
#if
!defined(AFX_PICTUREPROPERTIES_H__FE3B5725_0C06_409E_93BE_B7254BBE58D6__INCLUDED_)
#define AFX_PICTUREPROPERTIES_H__FE3B5725_0C06_409E_93BE_B7254BBE58D6__INCLUDED_

#if _MSC_VER > 1000
#pragma once
#endif // _MSC_VER > 1000

// the scaling options string maps a string to a value
typedef struct
{
        LPTSTR   description;
        int              value;
} StringToIntMap;



// these are the options the user has for scaling an image
// these are stored in the registry as int percentages
const int DefaultScaleValue = 0;
const int CustomScaleIndex       = 4; // specifies which entry is the custom user
setting one
const StringToIntMap ScalingOptions[] =
        {
                { _T("None"), DefaultScaleValue },
                { _T("25%"), 25 },
                { _T("50%"), 50 },
                { _T("75%"), 75 },
                { _T("Custom"), 10 }
        };
// these are the options the user has for selecting color depth
// these are saved in teh registry as int number of colors
const int DefaultColorDepth              = 256;
const int DefaultPosition                = 3; // which index is the default
const StringToIntMap ColorDepthOptions[] =
        {
                { _T("4 Shades of Grey"), 4 },
                { _T("16 Colors"), 16 },
                { _T("256 Colors"), DefaultColorDepth },
                { _T("High Color (16bit)"), 0xffff},
        };


class CPictureProperties : public CDialog
```

```
{
public:
        CPictureProperties(CWnd* pParent = NULL);    // standard constructor

        //{{AFX_DATA(CPictureProperties)
        enum { IDD = IDD_PICTURE_PROPERTIES };
        CComboBox       m_imageScalingComboBox;
        CComboBox       m_colorDepthComboBox;
        CString m_colorDepth;
        int             m_bAdjustAllImages;
        CString m_imageScalingType;
        //}}AFX_DATA


        // ClassWizard generated virtual function overrides
        //{{AFX_VIRTUAL(CPictureProperties)
        protected:
        virtual void DoDataExchange(CDataExchange* pDX);      // DDX/DDV support
        //}}AFX_VIRTUAL

protected:

        // Generated message map functions
        //{{AFX_MSG(CPictureProperties)
        virtual void OnOK();
        virtual BOOL OnInitDialog();
        afx_msg void OnHideAllImagesRadio();
        afx_msg void OnAdjustImagesRadio();
        afx_msg void OnSelchangeImageScaling();
        //}}AFX_MSG
        DECLARE_MESSAGE_MAP()
private:
        void SetCustomComboDescription( int amount );
};

//{{AFX_INSERT_LOCATION}}
// Microsoft Visual C++ will insert additional declarations immediately before the
previous line.

#endif //
!defined(AFX_PICTUREPROPERTIES_H__FE3B5725_0C06_409E_93BE_B7254BBE58D6__INCLUDED_)
```

Exhibit C

```
                              IWConfigPPC1.rc
//Microsoft Developer Studio generated resource script.
//
#include "resource.h"

#define APSTUDIO_READONLY_SYMBOLS
/////////////////////////////////////////////////////////////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "afxres.h"

/////////////////////////////////////////////////////////////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

/////////////////////////////////////////////////////////////////////////////
// English (U.S.) resources

#if !defined(AFX_RESOURCE_DLL) || defined(AFX_TARG_ENU)
#ifdef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif //_WIN32

#ifdef APSTUDIO_INVOKED
/////////////////////////////////////////////////////////////////////////////
//
// TEXTINCLUDE
//

1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

2 TEXTINCLUDE DISCARDABLE
BEGIN
    "#include ""afxres.h""\r\n"
    "\0"
END

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "#define _AFX_NO_SPLITTER_RESOURCES\r\n"
    "#define _AFX_NO_OLE_RESOURCES\r\n"
    "#define _AFX_NO_TRACKER_RESOURCES\r\n"
    "#define _AFX_NO_PROPERTY_RESOURCES\r\n"
    "\r\n"
    "#if !defined(AFX_RESOURCE_DLL) || defined(AFX_TARG_ENU)\r\n"
    "#ifdef _WIN32\r\n"
    "LANGUAGE 9, 1\r\n"
    "#pragma code_page(1252)\r\n"
    "#endif //_WIN32\r\n"
    "#include ""res\\IWConfig.rc2""  // non-Microsoft Visual C++ edited
resources\r\n"
    "#include ""afxres.rc""          // Standard components\r\n"
    "#endif\r\n"
    "\0"
END

#endif    // APSTUDIO_INVOKED


#ifndef _MAC
```

```
                                  IwConfigPPC1.rc
//////////////////////////////////////////////////////////////////////////////
//
// Version
//

VS_VERSION_INFO VERSIONINFO
 FILEVERSION 1,0,0,1
 PRODUCTVERSION 1,0,0,1
 FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
 FILEFLAGS 0x1L
#else
 FILEFLAGS 0x0L
#endif
 FILEOS 0x4L
 FILETYPE 0x2L
 FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904b0"
        BEGIN
            VALUE "Comments", "\0"
            VALUE "CompanyName", "Infowave Software, Inc.\0"
            VALUE "FileDescription", "Infowave Control Panel Applet\0"
            VALUE "FileVersion", "1, 0, 0, 1\0"
            VALUE "InternalName", "IwConfig\0"
            VALUE "LegalCopyright", "Copyright          Infowave Software, Inc.\0"
            VALUE "LegalTrademarks", "\0"
            VALUE "OriginalFilename", "IwConfig.CPL\0"
            VALUE "PrivateBuild", "\0"
            VALUE "ProductName", "Infowave Config Control Panel Applet\0"
            VALUE "ProductVersion", "1, 0, 0, 1\0"
            VALUE "SpecialBuild", "\0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END

#endif    // !_MAC


//////////////////////////////////////////////////////////////////////////////
//
// Dialog
//

IDD_TEMPLATE_FRAME DIALOG DISCARDABLE  0, 0, 162, 154
STYLE WS_CHILD | WS_DISABLED | WS_BORDER
FONT 8, "MS Sans Serif"
BEGIN
    GROUPBOX        "Pocket PC Property Page Real-Estate",IDC_STATIC,0,0,159,
                    152
END

IDD_IFE DIALOG DISCARDABLE  0, 0, 162, 154
STYLE WS_CHILD | WS_DISABLED | WS_BORDER
FONT 8, "MS Sans Serif"
BEGIN
    LTEXT           "Outlook Profile:",IDC_STATIC,8,8,49,8
                                        Page 2
```

```
        COMBOBOX          IDC_OLPROFILELIST,68,4,80,53,CBS_DROPDOWNLIST | CBS_SORT |
                          WS_VSCROLL | WS_TABSTOP
        LTEXT             "Exchange site:",IDC_STATIC,8,24,48,8
        EDITTEXT          IDC_SERVER,68,22,80,14,ES_AUTOHSCROLL
        LTEXT             "Mailbox alias:",IDC_STATIC,8,43,43,8
        EDITTEXT          IDC_ALIAS,68,41,80,14,ES_AUTOHSCROLL
        LTEXT             "Preview messages larger than",IDC_STATIC,1,62,95,8
        EDITTEXT          IDC_THRESHOLD,99,60,20,14,ES_AUTOHSCROLL
        LTEXT             "kilobytes (K)",IDC_STATIC,122,62,39,8
        CONTROL           "Connect and retrieve new e-mail every",IDC_RETRIEVE,
                          "Button",BS_AUTOCHECKBOX | WS_TABSTOP,4,76,95,16
        COMBOBOX          IDC_RETRIEVEINTERVAL,101,78,37,72,CBS_DROPDOWNLIST |
                          WS_VSCROLL | WS_TABSTOP
        CONTROL           "Automatically connect upon send mail",IDC_SEND,"Button",
                          BS_AUTOCHECKBOX | WS_TABSTOP,4,96,135,10
        LTEXT             "Change server message handling settings.",IDC_STATIC,4,
                          121,107,30
        PUSHBUTTON        "Advanced...",IDC_ADVANCED,113,121,43,14
        LTEXT             "mins.",IDC_STATIC,141,81,17,8
        LTEXT             "Advanced",IDC_STATIC,1,109,34,8
END

IDD_IFN DIALOG DISCARDABLE  0, 0, 162, 154
STYLE WS_CHILD | WS_DISABLED | WS_BORDER
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT             "Web Page Elements Filter",IDC_WEB_PAGE_LABEL,0,2,134,11
        LTEXT             "Filter the following page elements when viewing web pages:",
                          IDC_STATIC,7,14,151,17
        CONTROL           "Pictures",IDC_FILTERPICTURES,"Button",BS_AUTOCHECKBOX |
                          WS_TABSTOP,10,36,41,10
        CONTROL           "Sounds",IDC_FILTERSOUNDS,"Button",BS_AUTOCHECKBOX |
                          WS_TABSTOP,10,47,40,10
        CONTROL           "Applets/Controls/Plug-ins",IDC_FILTERPLUGINS,"Button",
                          BS_AUTOCHECKBOX | WS_TABSTOP,10,58,96,10
        CONTROL           "Comments/Scripts",IDC_FILTERSCRIPTS,"Button",
                          BS_AUTOCHECKBOX | WS_TABSTOP,10,69,73,10
        LTEXT             "Warning: Filtering may cause problems with some web pages.  If
you encounter problems, turn off filtering options.",
                          IDC_STATIC,8,84,147,29
        LTEXT             "Change advanced web browsing setting.",IDC_STATIC,17,
                          125,84,19
        PUSHBUTTON        "Advanced...",IDC_ADVANCED,102,127,45,14
        LTEXT             "Advanced",IDC_ADVANCED_LABEL,4,114,79,9
        PUSHBUTTON        "Options...",IDC_PICTURE_OPTIONS,52,36,45,14
END

IDD_SERVEROPTIONS DIALOG DISCARDABLE  0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Server Options"
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT             "When messages are received wirelessly",IDC_STATIC,0,1,
                          126,8
        CONTROL           "Remove message from server",IDC_RECVREMOVE,"Button",
                          BS_AUTORADIOBUTTON | WS_GROUP,3,30,109,10
        CONTROL           "Move message to Infowave saved items folder on server
(recommended)",
                          IDC_RECVMOVETOIW,"Button",BS_AUTORADIOBUTTON,2,15,160,12
        CONTROL           "Mark messages as read on server",IDC_RECVMARKASREAD,
                          "Button",BS_AUTORADIOBUTTON,3,43,122,10
        LTEXT             "When messages are sent wirelessly",IDC_STATIC,0,56,112,
```

```
        CONTROL           "Remove messages from server",IDC_SENTREMOVE,"Button",
                          BS_AUTORADIOBUTTON | WS_GROUP,4,66,113,10
        CONTROL           "Save messages in sent items folder on server",
                          IDC_SENTSAVEINSENT,"Button",BS_AUTORADIOBUTTON,4,76,157,
                          10
        LTEXT             "Message encoding format",IDC_STATIC,0,94,82,8
        CONTROL           "Rich Text Format (RTF)",IDC_ENCODERTF,"Button",
                          BS_AUTORADIOBUTTON | WS_GROUP,1,104,90,10
        CONTROL           "Plain Text",IDC_ENCODEPLAIN,"Button",BS_AUTORADIOBUTTON,
                          1,114,47,10
        DEFPUSHBUTTON     "OK",IDOK,75,134,36,14,NOT WS_VISIBLE
        PUSHBUTTON        "Cancel",IDCANCEL,118,135,36,14,NOT WS_VISIBLE
        PUSHBUTTON        "Restore Defaults",IDC_BUTTON1,7,134,61,14
END

IDD_SERVERSETTING DIALOG DISCARDABLE  0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Advanced Settings"
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT             "Server Address:",IDC_STATIC,0,0,90,8
        LTEXT             "Port #",IDC_STATIC,102,6,20,8
        EDITTEXT          IDC_PORTNUM,102,17,22,14,ES_AUTOHSCROLL | ES_NUMBER
        PUSHBUTTON        "Add",IDC_ADD,128,17,31,14
        LTEXT             "Server Search Order:",IDC_STATIC,2,37,107,8
        LISTBOX           IDC_ADDRLIST,1,47,109,70,LBS_NOINTEGRALHEIGHT |
                          LBS_EXTENDEDSEL | WS_VSCROLL | WS_HSCROLL | WS_TABSTOP
        PUSHBUTTON        "Move Up",IDC_MOVEUP,113,47,46,14
        PUSHBUTTON        "Move Down",IDC_MOVEDOWN,113,65,46,14
        PUSHBUTTON        "Remove",IDC_REMOVE,113,83,46,14
        CONTROL           "Save Mobility Engine logs",IDC_SAVELOG,"Button",
                          BS_AUTOCHECKBOX | WS_TABSTOP,3,134,97,10
        DEFPUSHBUTTON     "OK",IDOK,132,138,12,14,NOT WS_VISIBLE
        PUSHBUTTON        "Cancel",IDCANCEL,133,121,9,14,NOT WS_VISIBLE
        LTEXT             "Logs",IDC_STATIC,0,121,16,8
        GROUPBOX          "Dont't remove this punk",IDC_IP_CONTROL_RECT,7,17,89,14,
                          NOT WS_VISIBLE,WS_EX_STATICEDGE
        PUSHBUTTON        "Modify",IDC_EDIT_IP_ADDRESS,113,101,46,14
END

IDD_MOBITEXPROP DIALOGEX 0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Modem Options"
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT             "Com Port:",IDC_STATIC,2,9,32,8
        COMBOBOX          IDC_COMPORTLIST,44,7,48,62,CBS_DROPDOWNLIST | WS_VSCROLL |
                          WS_TABSTOP
        LTEXT             "Network:",IDC_STATIC,2,28,30,8
        CONTROL           "USA",IDC_NETWORKUSA,"Button",BS_AUTORADIOBUTTON |
                          WS_GROUP,43,28,31,10
        CONTROL           "Canada",IDC_NETWORKCANADA,"Button",BS_AUTORADIOBUTTON,
                          43,40,41,10
        CONTROL           "Other",IDC_NETWORKOTHER,"Button",BS_AUTORADIOBUTTON,43,
                          52,33,10
        CONTROL           "Disconnect if idle for",IDC_ENABLE_DISCONNECT,"Button",
                          BS_AUTOCHECKBOX | WS_GROUP | WS_TABSTOP,2,74,80,10
        COMBOBOX          IDC_TIMEOUT,85,71,43,72,CBS_DROPDOWNLIST | WS_VSCROLL |
                          WS_TABSTOP
        LTEXT             "minutes.",IDC_STATIC,131,73,27,8
```

```
        DEFPUSHBUTTON       "OK",IDOK,17,134,50,14,NOT WS_VISIBLE
        PUSHBUTTON          "Cancel",IDCANCEL,90,134,50,14,NOT WS_VISIBLE
END


IDD_MOBITEXSERVERSETTING DIALOG DISCARDABLE  0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Advanced Settings"
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT               "Server Address:",IDC_STATIC,1,0,51,8
        EDITTEXT            IDC_SERVERADDR,1,16,107,14,ES_AUTOHSCROLL | ES_NUMBER
        PUSHBUTTON          "Add",IDC_ADD,112,16,47,14
        LTEXT               "Server Search Order:",IDC_STATIC,1,35,68,8
        LISTBOX             IDC_ADDRLIST,1,45,107,52,LBS_NOINTEGRALHEIGHT |
                            LBS_EXTENDEDSEL | WS_VSCROLL | WS_HSCROLL | WS_TABSTOP
        PUSHBUTTON          "Move Up",IDC_MOVEUP,112,45,47,14
        PUSHBUTTON          "Move Down",IDC_MOVEDOWN,112,64,47,14
        PUSHBUTTON          "Remove",IDC_REMOVE,112,83,47,14
        CONTROL             "Save Mobility Engine logs",IDC_SAVELOG,"Button",
                            BS_AUTOCHECKBOX | WS_TABSTOP,14,117,97,10
        DEFPUSHBUTTON       "OK",IDOK,28,133,50,14,NOT WS_VISIBLE
        PUSHBUTTON          "Cancel",IDCANCEL,82,133,50,14,NOT WS_VISIBLE
        LTEXT               "Logs",IDC_STATIC,1,105,16,8
END


IDD_WEBSETTING DIALOG DISCARDABLE  0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Advanced Settings"
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT               "Network Settings",IDC_NETWORK_SETTINGS_LABEL,0,7,99,10
        LTEXT               "Web connection port:",IDC_STATIC,10,20,83,9
        EDITTEXT            IDC_WEBPORT,96,18,40,14,ES_AUTOHSCROLL | ES_NUMBER
        LTEXT               "Browser Configuration",IDC_BROWSER_CONFIG_LABEL,0,40,
                            104,11
        CONTROL             "Auto-configure Internet Explorer for wireless use",
                            IDC_CONFIGIE,"Button",BS_AUTOCHECKBOX | WS_TABSTOP,0,56,
                            165,10
        CONTROL             "Automatically connect on browse",IDC_CONNECTONBROWSE,
                            "Button",BS_AUTOCHECKBOX | WS_TABSTOP,9,69,120,10
        DEFPUSHBUTTON       "OK",IDOK,33,131,50,14,NOT WS_VISIBLE
        PUSHBUTTON          "Cancel",IDCANCEL,87,131,50,14,NOT WS_VISIBLE
END


IDD_ENGINE DIALOG DISCARDABLE  0, 0, 162, 154
STYLE WS_CHILD | WS_DISABLED | WS_BORDER
FONT 8, "MS Sans Serif"
BEGIN
        CONTROL             "Pre-configured:",IDC_SUPPORTED_RADIO_DEVICE,"Button",
                            BS_AUTORADIOBUTTON | WS_GROUP,3,15,61,10
        CONTROL             "Other:",IDC_OTHER_RADIO_DEVICE,"Button",
                            BS_AUTORADIOBUTTON,4,47,42,10
        LTEXT               "Modem/Phone",IDC_MODEM_PHONE_LABEL,2,2,86,9
        COMBOBOX            IDC_SUPPORTED_DEVICES,13,28,96,80,CBS_DROPDOWNLIST |
                            CBS_SORT | WS_VSCROLL | WS_GROUP | WS_TABSTOP
        PUSHBUTTON          "Settings...",IDC_MODEM_OPTIONS,113,27,39,14,WS_GROUP
        LISTBOX             IDC_USER_DEVICE_LIST,13,58,139,35,LBS_NOINTEGRALHEIGHT |
                            WS_VSCROLL | WS_GROUP | WS_TABSTOP
        PUSHBUTTON          "Add...",IDC_ADD_DEVICE,13,97,46,14,WS_GROUP
        PUSHBUTTON          "Remove",IDC_REMOVE_DEVICE,61,97,46,14,WS_GROUP
        PUSHBUTTON          "Configure...",IDC_CONFIGURE_DEVICE,109,97,46,14,
```

```
                        WS_GROUP
    CONTROL             "Launcn/a PPC",IDC_LAUNCHONSTART,"Button",
                        BS_AUTOCHECKBOX | NOT WS_VISIBLE | WS_GROUP | WS_TABSTOP,
                        80,4,67,17
    LTEXT               "Advanced",IDC_ADVANCED_LABEL,1,116,42,11,
    LTEXT               "Change server addresses and logs settings.",IDC_STATIC,
                        4,128,101,21
    PUSHBUTTON          "Settings...",IDC_ADVCONFIG,113,126,42,14,WS_GROUP
    LTEXT               "Donot remove, needed for non-ppc.",IDC_STARTUP_LABEL,43,
                        113,104,15,NOT WS_VISIBLE
END

IDD_INFO_MARK_READ_DIALOG DIALOG DISCARDABLE  0, 0, 186, 95
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION
CAPTION "Mark as Read INfo"
FONT 8, "MS Sans Serif"
BEGIN
    DEFPUSHBUTTON       "OK",IDOK,129,7,50,14
    PUSHBUTTON          "Cancel",IDCANCEL,129,24,50,14
END

IDD_EDIT_IP_ADDR DIALOG DISCARDABLE  0, 0, 158, 45
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Modify IP Address"
FONT 8, "MS Sans Serif"
BEGIN
    LTEXT               "Server Address",IDC_STATIC,13,6,61,8
    LTEXT               "Port #",IDC_STATIC,113,6,20,8
    EDITTEXT            IDC_PORTNUM,113,17,28,14,ES_AUTOHSCROLL | ES_NUMBER
    GROUPBOX            "Don't remove me punk ",IDC_IP_CONTROL_RECT,13,17,94,15,
                        NOT WS_VISIBLE,WS_EX_CLIENTEDGE
END

IDD_ADDNEWDEVICE DIALOG DISCARDABLE  0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Configuration"
FONT 8, "MS Sans Serif"
BEGIN
    LTEXT               "Configuration name:",IDC_STATIC,7,6,64,10
    EDITTEXT            IDC_DEVICE_NAME,7,16,136,13,ES_AUTOHSCROLL
    LTEXT               "Network type:",IDC_STATIC,7,35,64,9
    COMBOBOX            IDC_NETWORK_TYPES,7,45,83,54,CBS_DROPDOWNLIST | CBS_SORT |
                        WS_VSCROLL | WS_TABSTOP
    LTEXT               "Connection:",IDC_STATIC,7,64,83,9
    COMBOBOX            IDC_DUN_ENTRY,7,74,83,110,CBS_DROPDOWNLIST | CBS_SORT |
                        WS_VSCROLL | WS_TABSTOP
    PUSHBUTTON          "Settings...",IDC_MODEM_PROPERTIES,94,74,50,14
    CONTROL             "Disconnect if idle for:",IDC_ENABLE_DISCONNECT,"Button",
                        BS_AUTOCHECKBOX | WS_TABSTOP,7,97,82,10
    COMBOBOX            IDC_TIMEOUT,90,97,33,72,CBS_DROPDOWNLIST | WS_VSCROLL |
                        WS_TABSTOP
    LTEXT               "minutes.",IDC_STATIC,126,99,34,8
    DEFPUSHBUTTON       "OK",IDOK,53,117,50,14
    PUSHBUTTON          "Cancel",IDCANCEL,106,117,50,14
END

IDD_AUTOCONNECT DIALOG DISCARDABLE  0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Modem Settings"
FONT 8, "MS Sans Serif"
BEGIN
```

```
        CONTROL              "Auto-connect Mobility Engine when card is inserted.",
                             IDC_AUTOCONNECT,"Button",BS_AUTOCHECKBOX | BS_MULTILINE |
                             WS_TABSTOP,7,2,111,24
        DEFPUSHBUTTON        "OK",IDOK,57,31,50,14,NOT WS_VISIBLE
        PUSHBUTTON           "Cancel",IDCANCEL,109,31,50,14,NOT WS_VISIBLE
END


IDD_CUSTOM_SCALE_DLG DIALOG DISCARDABLE  0, 0, 153, 111
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Custom Image Scaling"
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT                "Image scaling (%):",IDC_STATIC,6,22,63,13
        EDITTEXT             IDC_CUSTOM_SCALE_EDIT,70,19,40,16,ES_AUTOHSCROLL |
                             ES_NUMBER
        CONTROL              "Spin1",IDC_CUSTOMS_SCALE_SPIN,"msctls_updown32",
                             UDS_SETBUDDYINT | UDS_ALIGNRIGHT | UDS_AUTOBUDDY,109,19,
                             11,16
        DEFPUSHBUTTON        "OK",IDOK,44,43,50,14,NOT WS_VISIBLE
        PUSHBUTTON           "Cancel",IDCANCEL,100,43,50,14,NOT WS_VISIBLE
END


IDD_MODEM_PROPERTIES DIALOG DISCARDABLE  0, 0, 162, 74
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_CONTEXTHELP
CAPTION "Modem Properties"
FONT 8, "MS Sans Serif"
BEGIN
        DEFPUSHBUTTON        "OK",IDOK,58,31,50,14,NOT WS_VISIBLE
        PUSHBUTTON           "Cancel",IDCANCEL,112,31,50,14,NOT WS_VISIBLE
        COMBOBOX             IDC_TIMEOUT,72,8,56,72,CBS_DROPDOWNLIST | WS_VSCROLL |
                             WS_TABSTOP
        LTEXT                "Disconnect if idle for",IDC_STATIC,2,10,67,11
        LTEXT                "minutes.",IDC_STATIC,131,9,27,8
END


IDD_PICTURE_PROPERTIES DIALOG DISCARDABLE  0, 0, 162, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Picture Options"
FONT 8, "MS Sans Serif"
BEGIN
        LTEXT                "Change image display and reduce color depth to decrease Web
page download times.",
                             IDC_STATIC,10,5,145,17
        CONTROL              "Hide all images",IDC_HIDE_ALL_IMAGES_RADIO,"Button",
                             BS_AUTORADIOBUTTON | WS_GROUP,10,24,100,15
        CONTROL              "Adjust all images",IDC_HIDE_ALL_IMAGES_RADIO2,"Button",
                             BS_AUTORADIOBUTTON,10,39,100,15
        LTEXT                "Image Scaling:",IDC_STATIC,22,58,52,13
        COMBOBOX             IDC_IMAGE_SCALING,76,57,65,75,CBS_DROPDOWNLIST |
                             WS_VSCROLL | WS_TABSTOP
        LTEXT                "Color Depth:",IDC_STATIC,22,75,43,13
        COMBOBOX             IDC_COLOR_DEPTH,76,75,77,67,CBS_DROPDOWNLIST | CBS_SORT |
                             WS_VSCROLL | WS_TABSTOP
        DEFPUSHBUTTON        "OK",IDOK,51,99,50,14,NOT WS_VISIBLE
        PUSHBUTTON           "Cancel",IDCANCEL,103,99,50,14,NOT WS_VISIBLE
END


/////////////////////////////////////////////////////////////////////////////
//
// DESIGNINFO
//
```

```
#ifdef APSTUDIO_INVOKED
GUIDELINES DESIGNINFO DISCARDABLE
BEGIN
    IDD_SERVEROPTIONS, DIALOG
    BEGIN
        TOPMARGIN, 1
    END

    IDD_SERVERSETTING, DIALOG
    BEGIN
        BOTTOMMARGIN, 152
    END

    IDD_MOBITEXPROP, DIALOG
    BEGIN
        LEFTMARGIN, 2
        RIGHTMARGIN, 159
        TOPMARGIN, 7
        BOTTOMMARGIN, 148
    END

    IDD_MOBITEXSERVERSETTING, DIALOG
    BEGIN
        LEFTMARGIN, 1
        BOTTOMMARGIN, 147
    END

    IDD_WEBSETTING, DIALOG
    BEGIN
        TOPMARGIN, 7
        BOTTOMMARGIN, 153
    END

    IDD_ENGINE, DIALOG
    BEGIN
        RIGHTMARGIN, 160
        BOTTOMMARGIN, 152
    END

    IDD_ADDNEWDEVICE, DIALOG
    BEGIN
        TOPMARGIN, 1
    END

    IDD_AUTOCONNECT, DIALOG
    BEGIN
        LEFTMARGIN, 7
        TOPMARGIN, 7
        BOTTOMMARGIN, 144
    END

    IDD_CUSTOM_SCALE_DLG, DIALOG
    BEGIN
        RIGHTMARGIN, 150
        BOTTOMMARGIN, 110
    END

    IDD_MODEM_PROPERTIES, DIALOG
    BEGIN
        LEFTMARGIN, 2
        TOPMARGIN, 1
    END
```

```
END
#endif        // APSTUDIO_INVOKED


/////////////////////////////////////////////////////////////////////////////
//
// Icon
//

// Icon with lowest ID value placed first to ensure application icon
// remains consistent on all systems.
IDI_IWNET                    ICON     DISCARDABLE     "res\\iwnet.ico"
IDI_IWENGINE                 ICON     DISCARDABLE     "res\\iwengine.ico"
IDI_IWCONFIG                 ICON     DISCARDABLE     "res\\IW.ico"
IDI_IWEXCHANGE               ICON     DISCARDABLE     "res\\iwexchange.ico"


/////////////////////////////////////////////////////////////////////////////
//
// String Table
//

STRINGTABLE DISCARDABLE
BEGIN
     IDS_APPLETNAME              "Infowave Mobility"
     IDS_APPLETINFO             "Infowave Mobility Config Utility"
     IDS_WIZARD                 "Wizard..."
     IDS_IWENGINE               "Engine"
     IDS_IWEXCHANGE             "Exchange"
     IDS_IWNET                  "Net"
     IDS_MODEMDEVICENAME_MOBITEX "Mobitex"
     IDS_NETWORKNAME_CDMA       "CDMA"
     IDS_NETWORKNAME_CDPD       "CDPD"
     IDS_NETWORKNAME_MOBITEX    "Mobitex"
     IDS_NETWORKNAME_DIALUP     "Dial-up"
     IDS_NETWORKNAME_LAN        "LAN"
     IDS_NETWORKNAME_GSM        "GSM"
     IDS_TIME_NONE              "None"
END

STRINGTABLE DISCARDABLE
BEGIN
     IDS_MERLIN_MODEM_NAME      "Novatel Merlin"
     IDS_SPIDER_MODEM_NAME      "Nextcell TypeII Spider"
     IDS_NOVATEL_JORNADA_MODEM_NAME "Novatel Jornada Sled"
     IDS_NEXTCELLCF_MODEM_NAME  "Nextcell Compact Flash"
     IDS_IWCAPTION              "Infowave Properties"
     IDS_SCALE_FORMAT_STRING    "Custom (%d%%)"
     IDS_MARK_AS_READ_ON_SERVER
                                "Mark as read on server help info.\nblah blah blah\nAre
you sure?"
END

STRINGTABLE DISCARDABLE
BEGIN
     IDS_TIME_1MIN              "1 min"
     IDS_TIME_2MIN              "2 min"
     IDS_TIME_3MIN              "3 min"
     IDS_TIME_4MIN              "4 min"
     IDS_TIME_5MIN              "5 min"
     IDS_COMPORT                "COM"
     IDS_NO_DUN_ENTRY           "None"
     IDS_ADD_DEVICE_TITLE       "Add New Device"
     IDS_EDIT_DEVICE_TITLE      "Configure Device"
```

```
                              IWConfigPPC1.rc
     IDS_ACTION_EDIT_BUTTON  "Ok"
     IDS_ACTION_ADD_BUTTON ·  "Add"
     IDS_MISSING_RAS_ENTRY    "Device was configured to use DUN Entry %s , but it
cannot be found on the computer. Please select a new entry."
     IDS_MISSING_DEVICE       "Missing device configuration, please select a new
device type."
     IDS_DEFAULT_USER_DEVICE "Default"
     IDS_AIRCARD_MODEM_NAME  "Sierra AirCard"
END

#endif    // English (U.S.) resources
/////////////////////////////////////////////////////////////////////////////


#ifndef APSTUDIO_INVOKED
/////////////////////////////////////////////////////////////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
//
#define _AFX_NO_SPLITTER_RESOURCES
#define _AFX_NO_OLE_RESOURCES
#define _AFX_NO_TRACKER_RESOURCES
#define _AFX_NO_PROPERTY_RESOURCES

#if !defined(AFX_RESOURCE_DLL) || defined(AFX_TARG_ENU)
#ifdef _WIN32
LANGUAGE 9, 1
#pragma code_page(1252)
#endif //_WIN32
#include "res\IWConfig.rc2"  // non-Microsoft Visual C++ edited resources
#include "afxres.rc"         // Standard components
#endif

/////////////////////////////////////////////////////////////////////////////
#endif    // not APSTUDIO_INVOKED
```

The Brain Dump 12
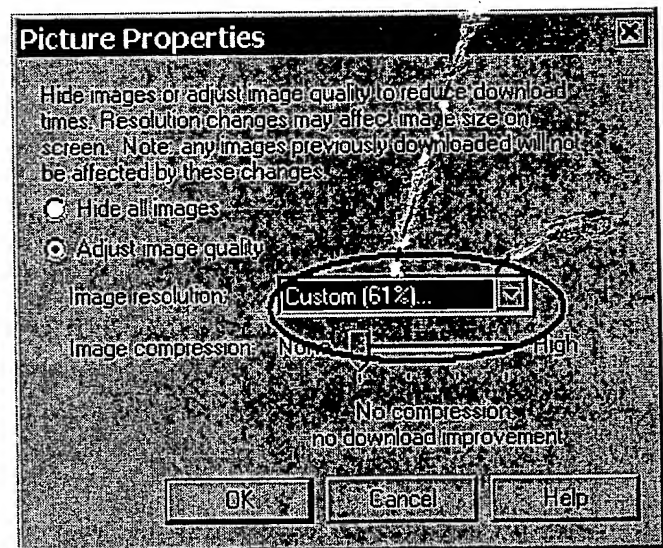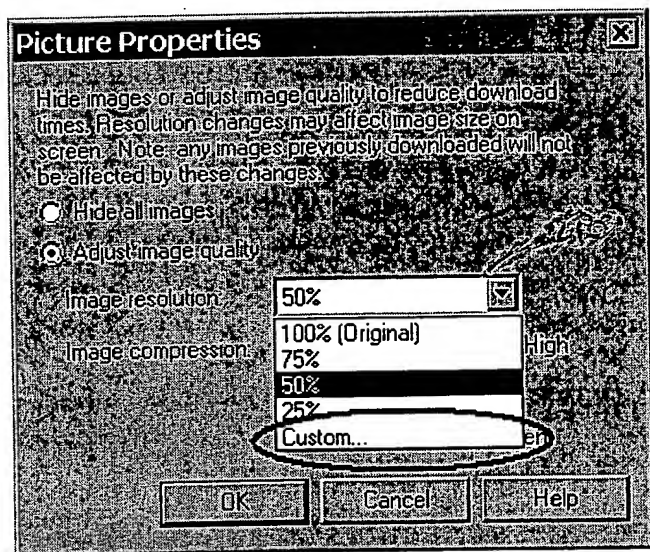
Name of Inventor or Inventors: Edwin Tam

Title of Invention:

Technique for retaining and selecting user customizable preferences.

1. Describe what you consider to be the invention. Include sketches or drawings and examples in addition to you written description.

As an example, consider the configuration of Infowave's Web Connector component in Version 4.0 of the Wireless Business Engine.

We allow a custom entry in a list box as seen by the word Custom below...

The idea is that tne list view item updates its displayed item based upon the configuration settings.

2. Describe what would be the best way to make use of your invention

This is helpful in User Interface Design in since it helps the user visually see what he has set without having to go into a secondary dialog boxs. This is helpful in reducing the Usability Heuristic "Reducing Memory Load". See Paul Hibbits for an in-depth explanation.

This adds value since the user does not need to traverse additional fields to view customized settings, thereby, increasing productivity.

3. *Describe Alternative ways to use the invention. Describe substitute materials, ranges of conditions and structural or process variations that work, even if not as well as the best way.*

Use secondary dialogs, list all options in the list box (no customization), use display fields.

4. **What was the problem that you set out to solve?**

Allow a customized entry for specifying image compression.

5. **How did you or others solve this problem in the past?**

In the past, either all options were listed in the drop list or a secondary dialog would show the selected value.

6. **How is your invention better or different from past solutions others have had? Describe any technical or economic advantage or disadvantages your invention may have over the past solutions.**

I don't recall seeing it in previous software products. The advantage is obvious, increases user friendliness and decreases extra dialogs / fields that otherwise would need to be perused.

8. **Has your idea/invention been used commercially, or tested commercially before? Is so, when and where.**

No.